

# DIGITAL RADIO WAVE COMMUNICATION EQUIPMENT

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Inventor(s): SAKAI YASUO; KAMEI KYOICHI; MATSUI WATARU

Applicant(s):: SANYO ELECTRIC CO LTD

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## Abstract

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**PURPOSE:** To shorten the processing time of interleaving and to prevent error diffusion by repeatedly transmitting a same frame with plural segments where an error detecting code is added two times by means of different frequencies at a transmission side.

**CONSTITUTION:** In a transmitting device, input data is delimited into the segments consisting of prescribed number of symbols and segmented and the error detecting code is added to the individual segments. A frame generating circuit 4 generates one frame from the prescribed number of segments with the error detecting code and a frame repeating two-transmission circuit 5 synchronizes with a hopping timing so as to transmit after two-time repetition. Then, the respective framed are digitally modulated in order by a digital modulating circuit 6 and transmitted from an antenna with a radio wave transmitting circuit 7. In this case, the radio wave transmitting circuit 7 is controlled so as to permit the center frequency of transmission carrier wave to be hopped in terms of the pseudo random number in a hopping control circuit 9. In result, the interleaving processing time of data is shortened while dealing a burst error caused by interference and the transmission error is extremely reduced.

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